

SEQUENCE LISTING

<120	> N]	LMA, I	INTE	RACT.	ING 1	PROTI	EINS						
<130	> 66	671-	-044										
<140 <141													
<150 <151													
<160	> 22	2											
<170	> Fa	stSI	EQ fo	or W	indo	ws Ve	ersio	on 4	. 0				
<210 <211 <212 <213	> 10 > DN	JA	sapie	ens									
<220 <221		os											
<222	> (2	25).	(51	L3)									
<400 tgct		cag o	cacct	cgaç	gg ga					gag a Glu 1			51
ggc Gly 10													99
aac Asn													147
agc Ser													195
tcg Ser													243

75 80 85

aac ggc tac atc cag aag atc aag tcg gga gag gag gac ttt gag tct Asn Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser 90 95 100 105	339
ctg gcc tca cag ttc agc gac tgc agc tca gcc aag gcc agg gga gac Leu Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp 110 115 120	387
ctg ggt gcc ttc agc aga ggt cag atg cag aag cca ttt gaa gac gcc Leu Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala 125 130 135	435
tcg ttt gcg ctg cgg acg ggg gag atg agc ggg ccc gtg ttc acg gat Ser Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp 140 145 150	483
tcc ggc atc cac atc atc ctc cgc act gag tgagggtggg gagcccaggc Ser Gly Ile His Ile Ile Leu Arg Thr Glu 155 160	533
ctggcctcgg ggcagggcag ggcggctagg ccggccagct cccccttgcc cgccagccag	593
tggccgaacc ccccactccc tgccaccgtc acacagtatt tattgttccc acaatggctg	653
ggagggggcc cttccagatt gggggccctg gggtccccac tccctgtcca tccccagttg	713
gggctgcgac cgccagattc tcccttaagg aattgacttc agcaggggtg ggaggctccc	773
agacccaggg cagtgtggtg ggaggggtgt tccaaagaga aggcctggtc agcagagccg	833
ccccgtgtcc ccccaggtgc tggaggcaga ctcgagggcc gaattgtttc tagttaggcc	893
acgetectet gtteagtege aaaggtgaac acteatgegg cagecatggg cectetgage	953
aactgtgcag accetttcae eeccaattaa acceagaace actaaaaaaa aaaaaaaaaa	1013
a ·	1014
<210> 2 <211> 163 <212> PRT <213> Homo sapiens	
<400> 2	
Met Ala Asp Glu Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser	
1 5 10 15 Arg Ser Ser Gly Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser 20 25 30	
Gln Trp Glu Arg Pro Ser Gly Asn Ser Ser Ser Gly Gly Lys Asn Gly 35 40 45	
Gln Gly Glu Pro Ala Arg Val Arg Cys Ser His Leu Leu Val Lys His 50 55 60	
Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg Gln Glu Lys Ile Thr Arg	
65 70 75 80	
Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn Gly Tyr Ile Gln Lys Ile 85 90 95	
Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu Ala Ser Gln Phe Ser Asp	
100 105 110	

```
115
                            120
                                                 125
Gln Met Gln Lys Pro Phe Glu Asp Ala Ser Phe Ala Leu Arg Thr Gly
                        135
                                             140
Glu Met Ser Gly Pro Val Phe Thr Asp Ser Gly Ile His Ile Leu
                    150
                                         155
Arg Thr Glu
<210> 3
<211> 31
<212> DNA
<213> Homo sapiens
<400> 3
gcgcctgcag tatctataya tggaataytg t
                                                                    31
<210> 4
<211> 31
<212> DNA
<213> Homo sapiens
<400> 4
gcgcggatcc rggtttcaga ggktyraasa g
                                                                    31
<210> 5
<211> 30
<212> DNA
<213> Homo sapiens
<400> 5
gcgcgtacca agwccacygt ayattattcc
                                                                    30
<210> 6
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> synthetic peptide
<400> 6
Met Tyr Asp Val Pro Asp Tyr Ala Ser Arg Pro Gln Asn
<210> 7
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
```

<223> synthetic peptide

<400> 7 Met Ala Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Pro Glu Phe 5 10 Leu Val Asp Pro Pro Gly Ser Lys Asn Ser Ile Ala Arg Gly Lys Met 20 25 <210> 8 <211> 39 <212> PRT <213> Homo sapiens <400> 8 Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly 5 10 Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg 20 25 Pro Ser Gly Asn Ser Ser Ser 35 <210> 9 <211> 39 <212> PRT <213> Yeast ESS1 <400> 9 Thr Gly Leu Pro Thr Pro Trp Thr Val Arg Tyr Ser Lys Ser Lys Lys 10 Arg Glu Tyr Phe Phe Asn Pro Glu Thr Lys His Ser Gln Trp Glu Glu 20 25 30 Pro Glu Gly Thr Asn Lys Asp 35 <210> 10 <211> 38 <212> PRT <213> Homo sapiens <400> 10 Val Pro Leu Pro Ala Gly Trp Glu Met Ala Lys Thr Ser Ser Gly Gln 10 Arg Tyr Phe Leu Asn His Ile Asp Gln Thr Thr Thr Trp Gln Asp Pro 20 25 Arg Lys Ala Met Leu Ser 35

<210> 11 <211> 38 <212> PRT <213> Mus musculus

```
Ser Pro Leu Pro Pro Gly Trp Glu Glu Arg Gln Asp Val Leu Gly Arg
                                    10
Thr Tyr Tyr Val Asn His Glu Ser Arg Arg Thr Gln Trp Lys Arg Pro
                                25
Ser Pro Asp Asp Asp Leu
       35
<210> 12
<211> 38
<212> PRT
<213> Yeast RSPS
<400> 12
Gly Arg Leu Pro Pro Gly Trp Glu Arg Arg Thr Asp Asn Phe Gly Arg
                                    10
Thr Tyr Tyr Val Asp His Asn Thr Arg Thr Thr Trp Lys Arg Pro
                                25
Thr Leu Asp Gln Thr Glu
       35
<210> 13
<211> 38
<212> PRT
<213> Homo sapiens
<400> 13
Thr Ser Val Gln Gly Pro Trp Glu Arg Ala Ile Ser Pro Asn Lys Val
Pro Tyr Tyr Ile Asn His Glu Thr Gln Thr Thr Cys Trp Asp His Pro
                                25
Lys Met Thr Glu Leu Tyr
       35
<210> 14
<211> 37
<212> PRT
<213> Rattus rattus
Ser Asp Leu Pro Ala Gly Trp Met Arg Val Gln Asp Thr Ser Gly Thr
Tyr Tyr Trp His Ile Pro Thr Gly Thr Thr Gln Trp Glu Pro Pro Gly
Arg Ala Ser Pro Ser
        35
```

```
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> consensus sequence
<400> 15
Leu Pro Gly Trp Glu Gly Tyr Tyr Asn His Thr Trp Pro
<210> 16
<211> 105
<212> PRT
<213> Homo sapiens
<400> 16 ·
His Leu Leu Val Lys His Ser Gln Ser Arg Pro Ser Ser Trp Arg
Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn
                                25
Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu
Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu
                        55
Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala Ser
                                        75
Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp Ser
               85
Gly Ile His Ile Ile Leu Arg Thr Glu
<210> 17
<211> 107
<212> PRT
<213> Yeast ESS1
<400> 17
His Ile Leu Ile Lys His Lys Asp Ser Arg Arg Pro Ala Ser His Arg
Ser Glu Asn Ile Thr Ile Ser Lys Gln Asp Ala Thr Asp Glu Leu Lys
                                25
Thr Leu Ile Thr Arg Leu Asp Asp Ser Lys Thr Asn Ser Phe Glu
Ala Leu Ala Lys Glu Arg Ser Asp Cys Ser Ser Tyr Lys Arg Gly Gly
Asp Leu Gly Trp Phe Gly Arg Gly Glu Met Gln Pro Ser Phe Glu Asp
                                        75
Ala Ala Phe Gln Leu Lys Val Gly Glu Val Ser Asp Ile Val Glu Ser
Gly Ser Gly Val His Val Ile Lys Arg Val Gly
```

100 105

<210> 18 <211> 83

<212> PRT

<213> E. coli

<400> 18

His Ile Leu Val Lys Glu Glu Lys Leu Ala Leu Asp Leu Leu Glu Gln

1 5 10 15

Ile Lys Asn Gly Ala Asp Phe Gly Lys Leu Ala Lys Lys His Ser Ile
20 25 30

Cys Pro Ser Gly Lys Arg Gly Gly Asp Leu Gly Glu Phe Arg Gln Gly 35 40 45

Gln Met Val Pro Ala Phe Asp Lys Val Val Phe Ser Cys Pro Val Leu 50 55 60

Glu Pro Thr Gly Pro Leu His Thr Gln Phe Gly Tyr His Ile Ile Lys
65 70 75 80

Val Leu Tyr

<210> 19

<211> 84

<212> PRT

<213> B.subtilis

<400> 19

His Ile Leu Val Ala Asp Lys Lys Thr Ala Glu Glu Val Glu Lys Lys

1 10 15

Leu Lys Lys Gly Glu Lys Phe Glu Asp Leu Ala Lys Glu Tyr Ser Thr 20 25 30

Asp Ser Ser Ala Ser Lys Gly Gly Asp Leu Gly Trp Phe Ala Lys Glu 35 40 45

Gly Gln Met Asp Glu Thr Phe Ser Lys Ala Ala Phe Lys Leu Lys Thr 50 55 60

Gly Glu Val Ser Asp Pro Val Lys Thr Gln Tyr Gly Tyr His Ile Ile
65 70 75 80

Lys Lys Thr Glu

<210> 20

<211> 91

<212> PRT

<213> C. jejuni

<400> 20

His Ile Leu Val Ala Thr Glu Lys Glu Ala Lys Asp Ile Ile Asn Glu

1 10 15

Leu Lys Gly Leu Lys Gly Lys Glu Leu Asp Ala Lys Phe Ser Glu Leu 20 25 30

Ala Lys Glu Lys Ser Ile Asp Pro Gly Ser Lys Asn Gln Gly Gly Glu

35 40 Leu Gly Trp Phe Asp Gln Ser Thr Met Val Lys Pro Phe Thr Asp Ala 55 Ala Phe Ala Leu Lys Asn Gly Thr Ile Thr Thr Thr Pro Val Lys Thr 70 75 Asn Phe Gly Tyr His Val Ile Leu Lys Glu Asn 85 <210> 21 <211> 67 <212> PRT <213> A. thaliana <400> 21 Ile Val Ser Lys Ala Asn Phe Glu Glu Val Ala Thr Arg Val Ser Asp 5 Cys Ser Ser Ala Lys Arg Gly Gly Asp Leu Gly Ser Phe Gly Arg Gly Gln Met Gln Lys Pro Phe Glu Glu Ala Thr Tyr Ala Leu Lys Val Gly Asp Ile Ser Asp Ile Val Asp Thr Asp Ser Gly Val His Ile Ile Lys Arg Thr Glu 65 <210> 22 <211> 45 <212> PRT <213> Artificial Sequence <220> <223> consensus sequence <400> 22 His Ile Leu Val Glu Lys Phe Glu Leu Ala Lys Ser Cys Ser Ser Lys 10 Gly Gly Asp Leu Gly Phe Arg Gly Gln Met Phe Asp Ala Ala Phe Leu Lys Gly Glu Ser Pro Val Thr Gly Tyr His Ile Ile Lys